



Collecting and  
Sharing Data on  
**bee health**  
Towards a  
European Bee  
**Partnership**

BRUSSELS, 26 JUNE '17

# Main conclusions

## Discussion Group 2

Better **data collection** and access  
for better **bee health** risk  
assessment

# DATA AVAILABILITY AND ACCESS (FOR BEE HEALTH ASSESSMENT)

- Crop coverage from subsidies data
  - Make public access to detailed data compulsory
  - Centralise this type of data at EU level
  - In the UK available crop mapping of landscape
  - Speed up to get data on crop seasonality and time
- Pesticides usage available at Pesticides Sustainability Directive (sales only) data EUROSTAT
  - Decentralise data, a framework to get the data at national level
- Weather/climate from JRC/E-OBS/Weather underground source
- varroa mite infestation level and beekeeping practices
- Density of bee colonies at MS level
- Honey bee health (mortality)
- Emission data/EC
- Farms structure database to be updated more often



# (FIELD) DATA COLLECTION - TOOLS

- Hi Tech tools

- Computer assisted counting / Image processing
- Non-invasive monitoring (weighting, video analyses, bee counters, sensors (e.g. temperature HR, vibrations, bioacoustics, etc))
- Harmonic radar
- Waggle dance decoding
- Softwares for beekeeping/farmer/veterinarian management
- Social media

- Others

- Questionnaires for baselines...
- Capacity building (people/network to get the data)





# DATA COLLATION AND MANAGEMENT (FOR SHARING)

- Beekeepers

- early warning information to mitigate, to act on colonies; see beebase example where good practical information to beekeepers and in return they get useful info; large datasets could stimulate networking capacity; the results of all this data collection effort needs to be beneficial otherwise beekeepers will not get involved anymore: updating system



- Scientists

- Very large of reliable and clean data (like in human epidemiol monitoring); reproducibility (if data open, someone else can come up with the same results?); more dataset more confident you can be in the results and conclusions made; Reliability info when from various sources? There are ranges of scenarios covering the range of situations

- Farmers:

Extension services for the farmers to provide advice; EC should make pesticides data available

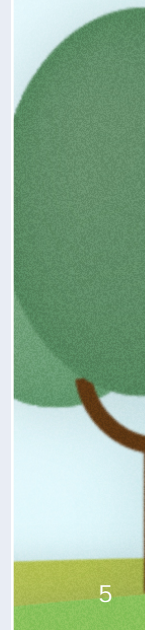
- Industry

- More robust data for better understand and for pre/post marketing; for good stewardship (good managing)



# DATA ANALYSIS

Stakeholders	What to predict?
Beekeepers	resource availability; probability of intoxications; Pathogen disease prevalence (AFB); early warning
Farmers	Pollination deficit
Industry	RA robust and realistic and to improve stewardship
Scientists	Mechanisms related to the food/landscape with the colonies
RA/RM	Flexible access to the data to make specific queries Resilience?



# DATA COMMUNICATION (FOR UNDERSTANDING)

Stakeholders	How we want the results of the analyses to be communicated?
Beekeepers	Personal communication to compare with the different levels (region/national...) and localisation; have the choice of the information you want to select to get the analysis; groups of experts/well educated people to update beekeepers with new scientifically based knowledge; communications in specialised magazines
Farmers	Same as to beekeepers: how they can provide support to make it sustainable; extension centers (specialist advisers)
RA/RM	Scenarios including beekeeping practices (how the colonies are managed); online communication with filters GLP (ie useable for RA); data meets the PGs